

FIG. 1

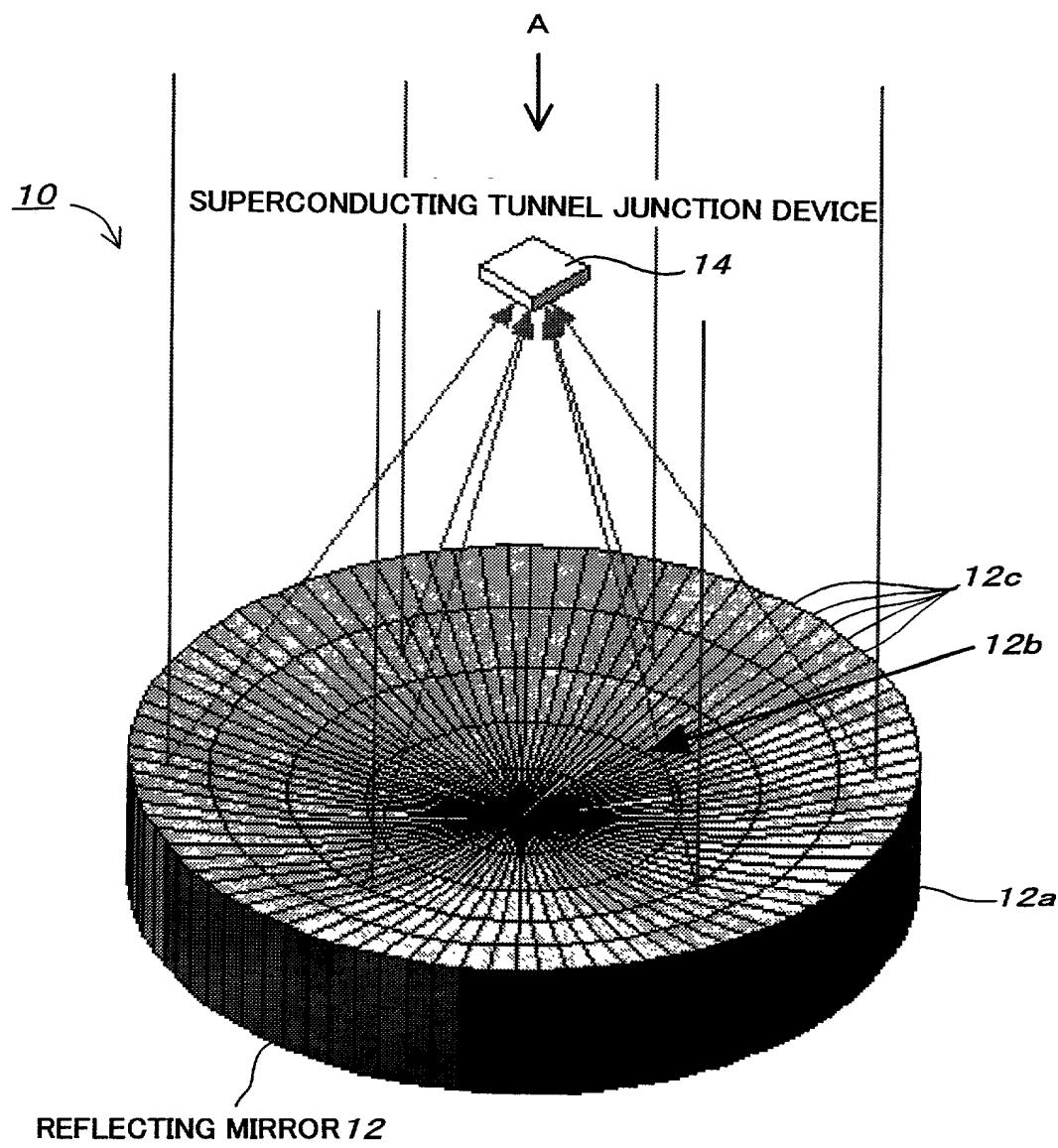


FIG. 2

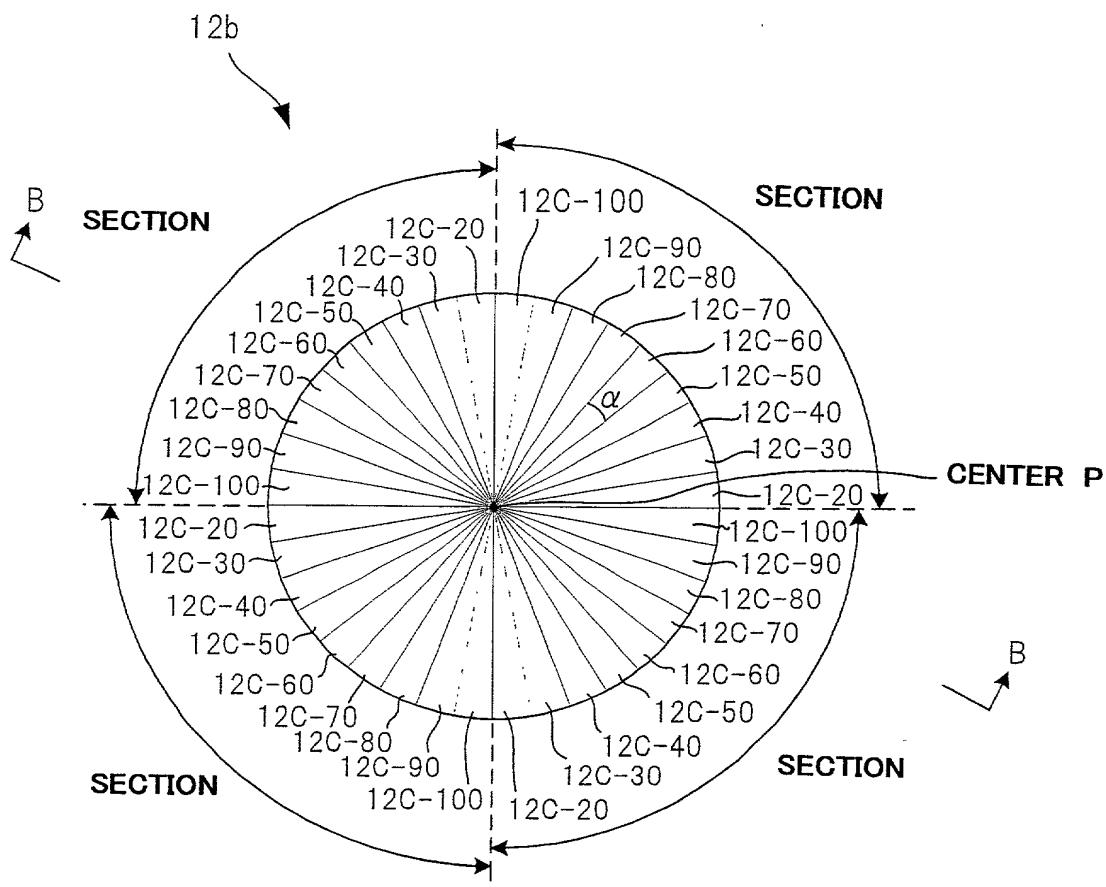


FIG. 3

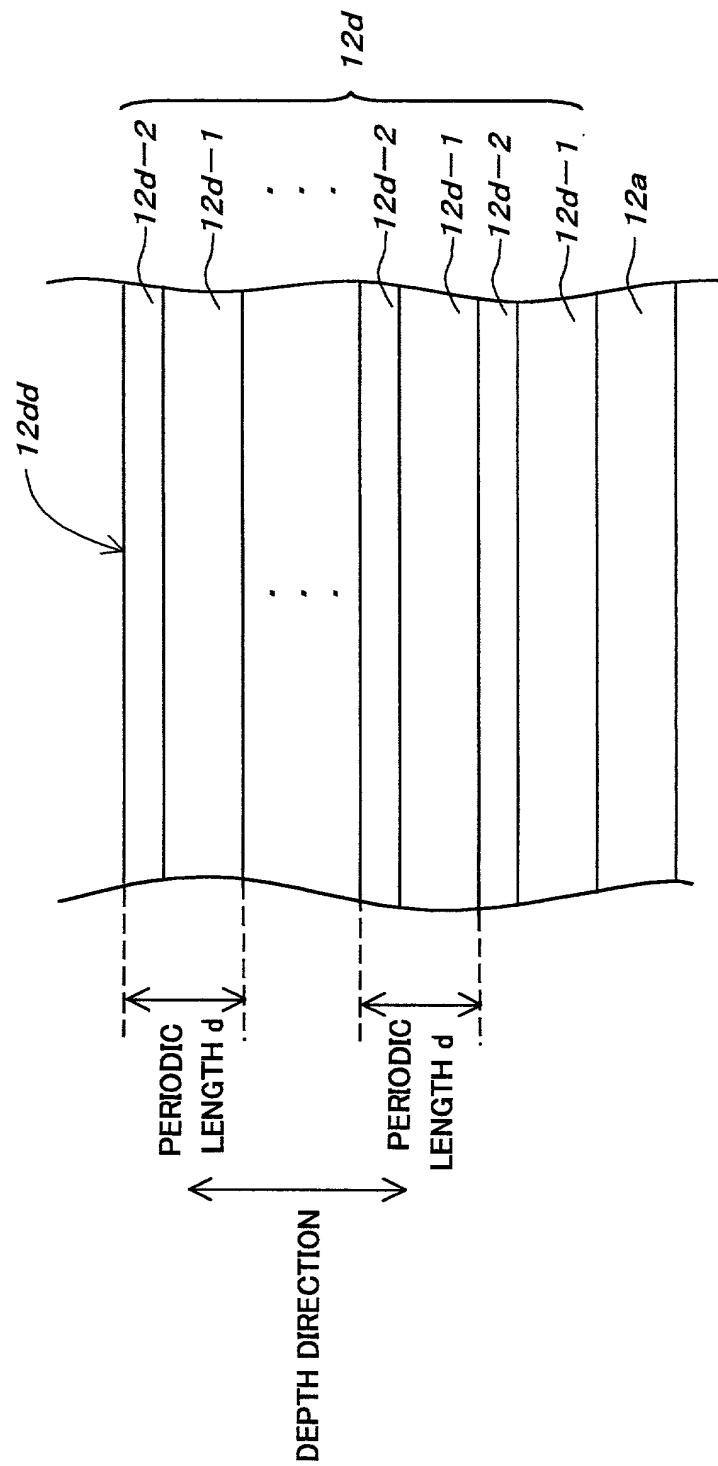


FIG. 4 (a)

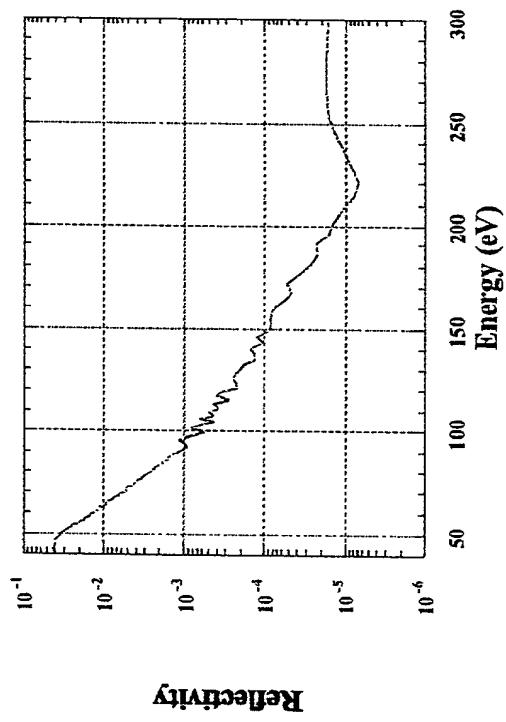


FIG. 4 (b)

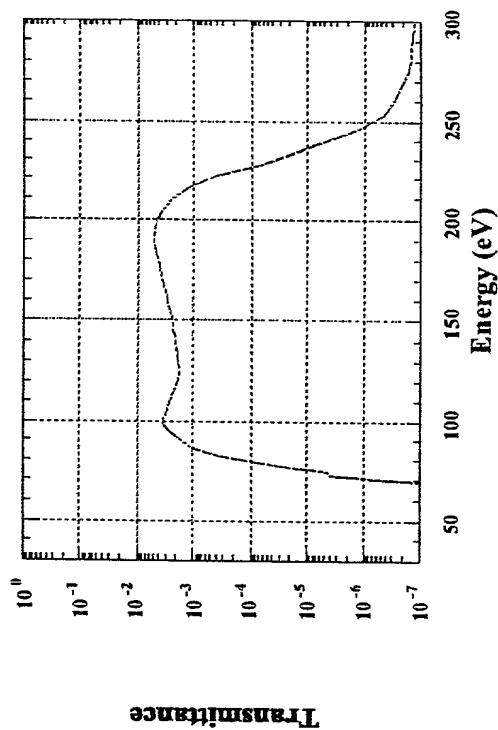


FIG. 5

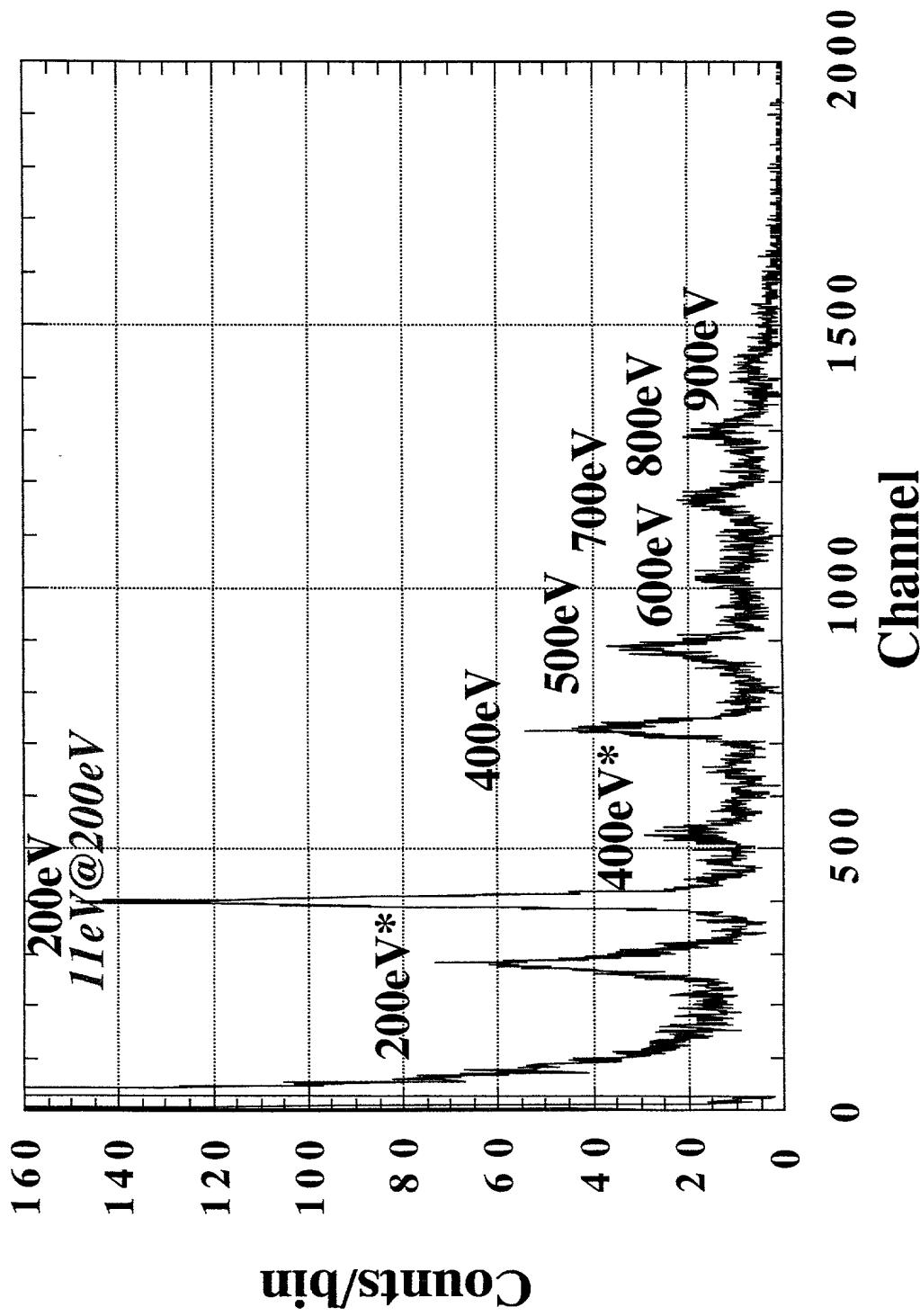
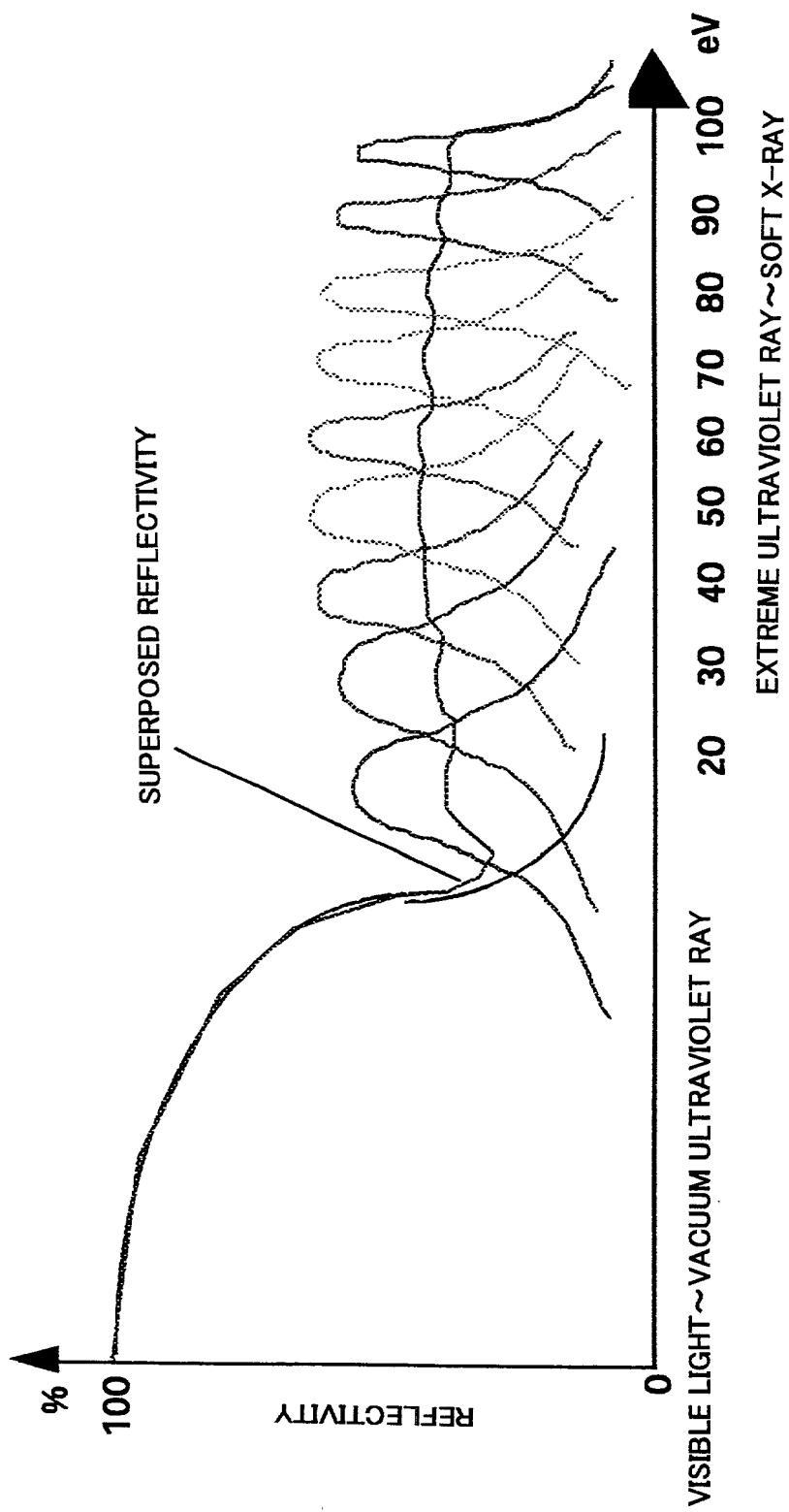


FIG. 6



SYNTHESIZED REFLECTIVITY CHARACTERISTICS OF MULTILAYER FILM REFLECTING MIRROR

FIG. 7(a)

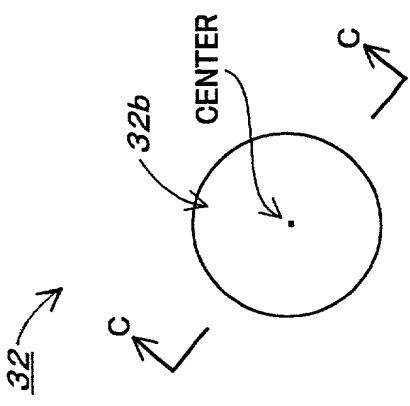


FIG. 7(b)

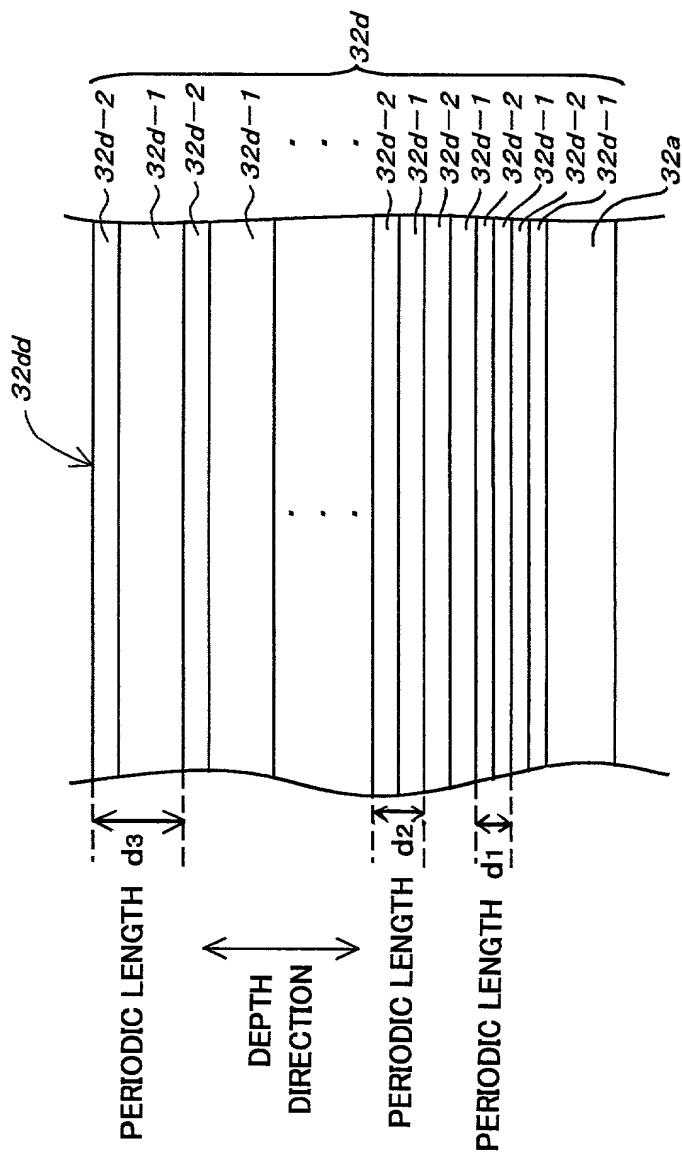


FIG. 8

NUMBER	MATERIAL1	MATERIAL2	VALUE d	VALUE γ	NUMBER OF PAIR LAYER	THEORETICAL CALCULATION1	THEORETICAL CALCULATION2
1	Mo	Mg2Si	170	50	20	O	O
2	Mo	Mg2Si	190	50	20	O	O
3	Mo	Mg2Si	210	40	20	O	O
4	Mo	Si	115	50	20	O	O
5	Mo	Si	140	50	20	O	O
6	Mo	Si	55	50	20	O	O
7	Mo	Si	60	50	20	O	O
8	Mo	Si	65	50	20	O	O
9	Mo	Si	65	70	20	O	O
10	Mo	Si	70	70	20	O	O
11	Mo	Si	75	70	20	O	O
12	Mo	Si	80	50	20	O	O
13	Ni	C	22	40	200	O	x
14	Ni	C	25	40	200	O	x
15	Ni	C	30	40	200	O	x
16	Ni	C	40	30	30	O	x
17	Ni	C	45	30	30	O	x
18	Ni	C	50	30	30	O	x
19	Ni	C	55	30	30	O	x
20	Ni	C	60	30	30	O	x
21	Mo	Si	85	50	20	O	O
22	Mo	Si	90	50	20	O	O
23	Mo	Si	95	50	20	O	O

FIG. 9

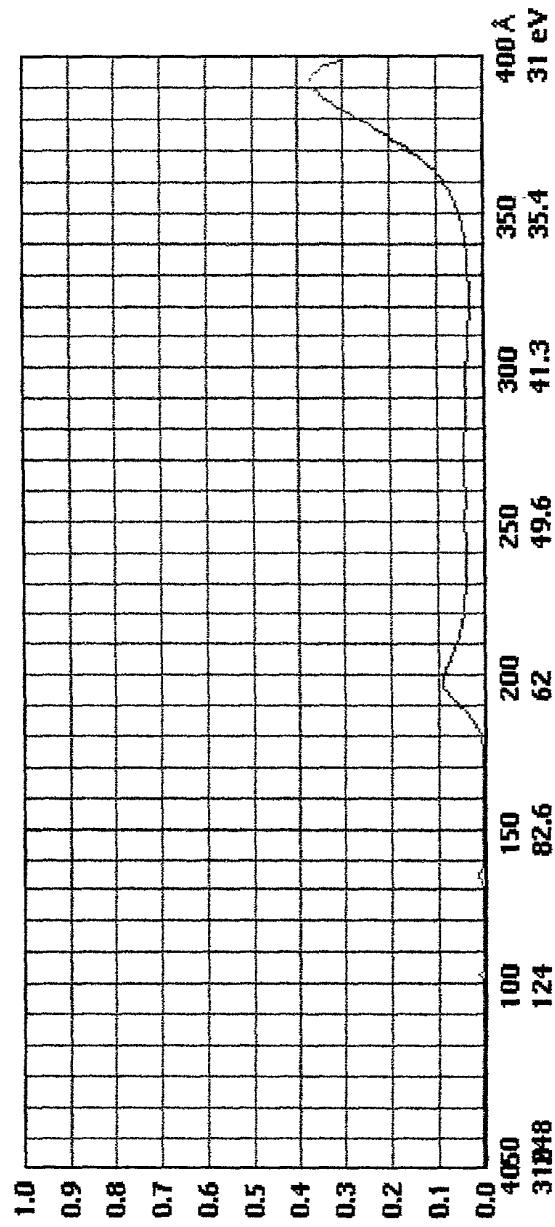


FIG. 10

COMPARISON OF SYNTHESIZED REFLECTIVITY IN
MULTILAYER FILM WITH REFLECTIVITY IN Pt MONOLAYER FILM

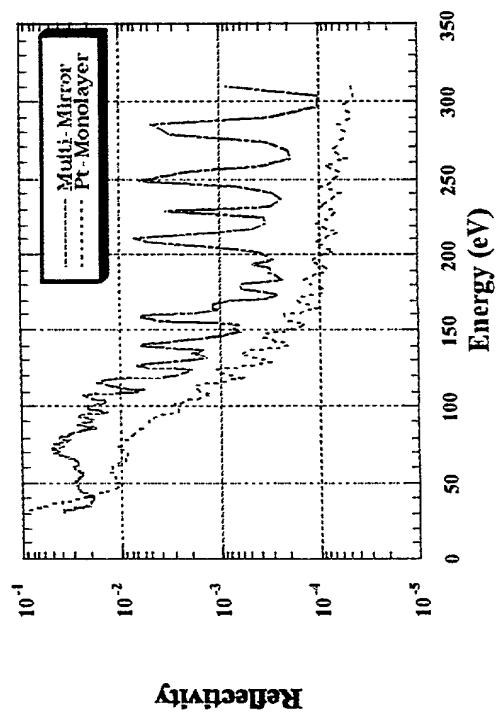


FIG. 11

COMPARISON OF SYNTHESIZED REFLECTIVITY WITH REFLECTIVITY
IN Pt MONOLAYER IN CASE OF IGNORING 125 eV OR HIGHER

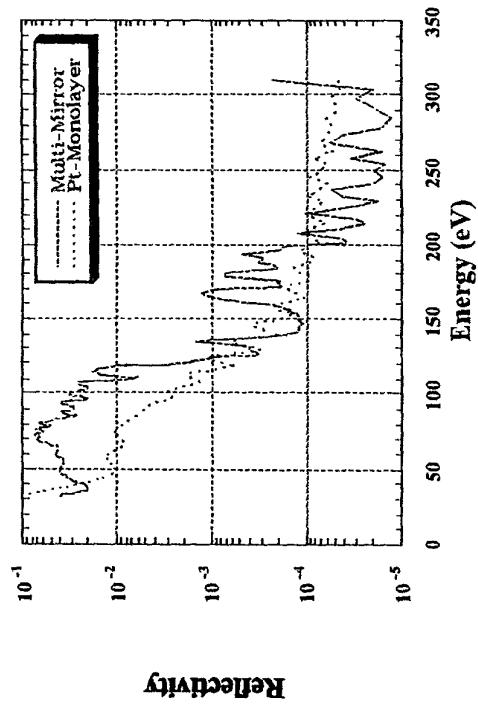


FIG. 12

MULTILAYER FILM Mo/Mg₂Si VALUE d 200
VALUE G 30 100PAIR LAYER

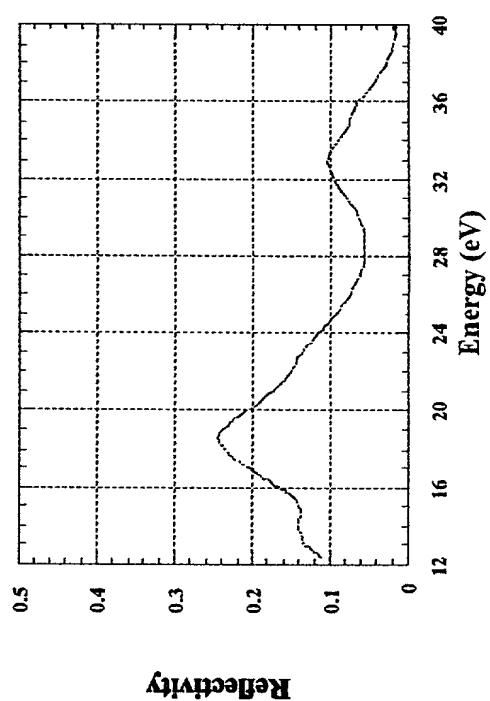


FIG. 13

NUMBER	MATERIAL1	MATERIAL2	INITIATION VALUE d	TERMINATION VALUE d	VALUE γ	NUMBER OF PAIR LAYER
1	Mo	Si	170	50	30	20
2	Mo	Si	190	50	50	20
3	Mo	Si	210	50	35	20
4	Mo	Si	115	50	25	20
5	Mo	Si	140	50	20	100

FIG. 14

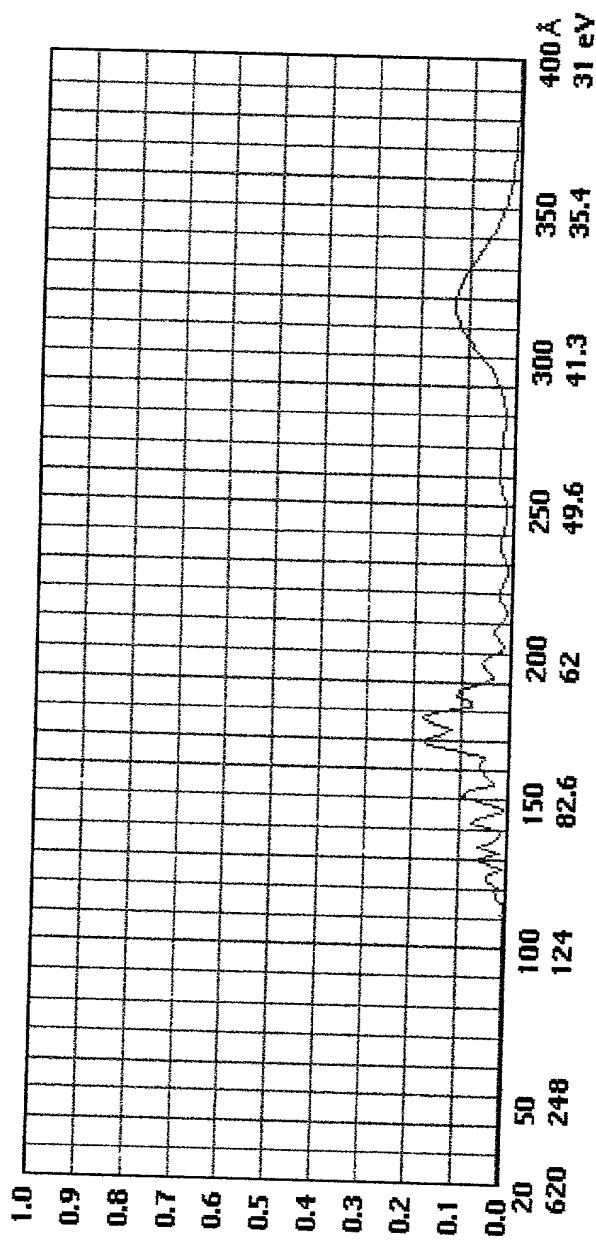


FIG. 15

COMPARISON OF SYNTHESIZED REFLECTIVITY IN
SUPERMIRROR WITH REFLECTIVITY IN Pt MONOLAYER FILM

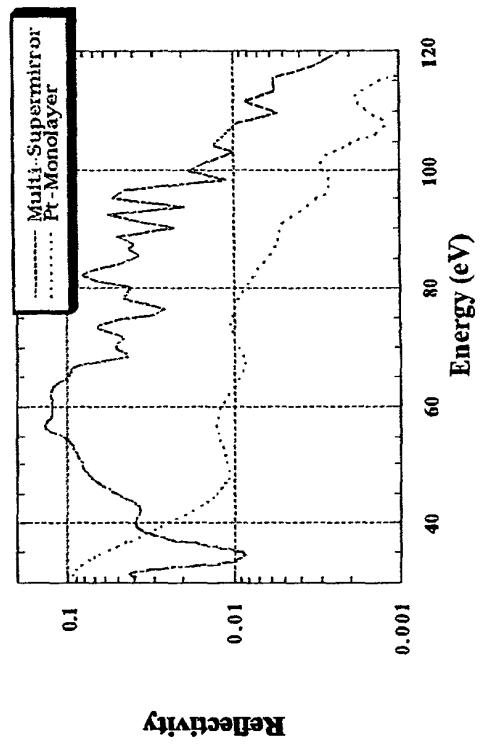


FIG. 16(a)

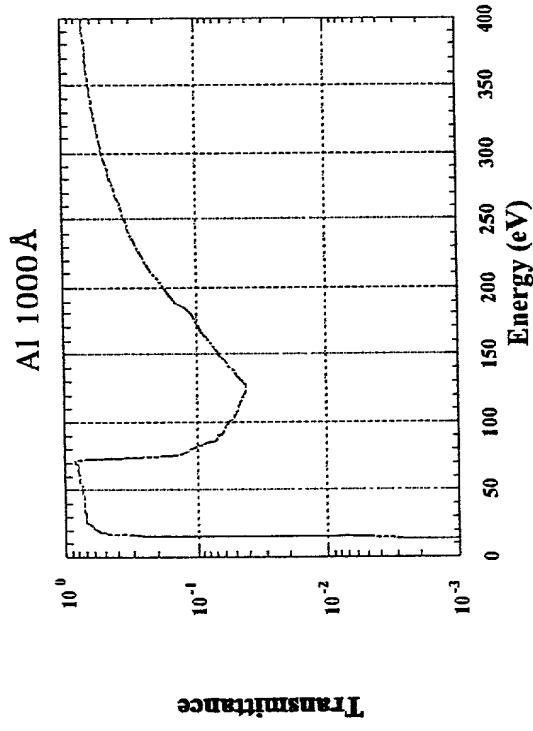


FIG. 16(b)

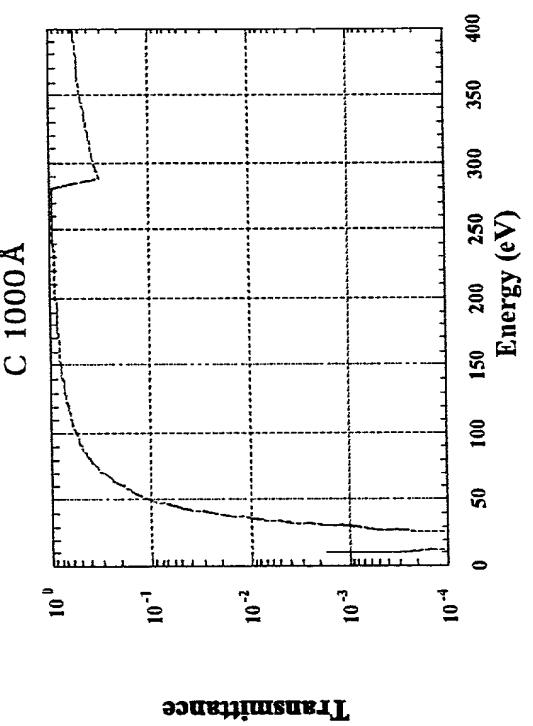


FIG. 17(a) FIG. 17(b)

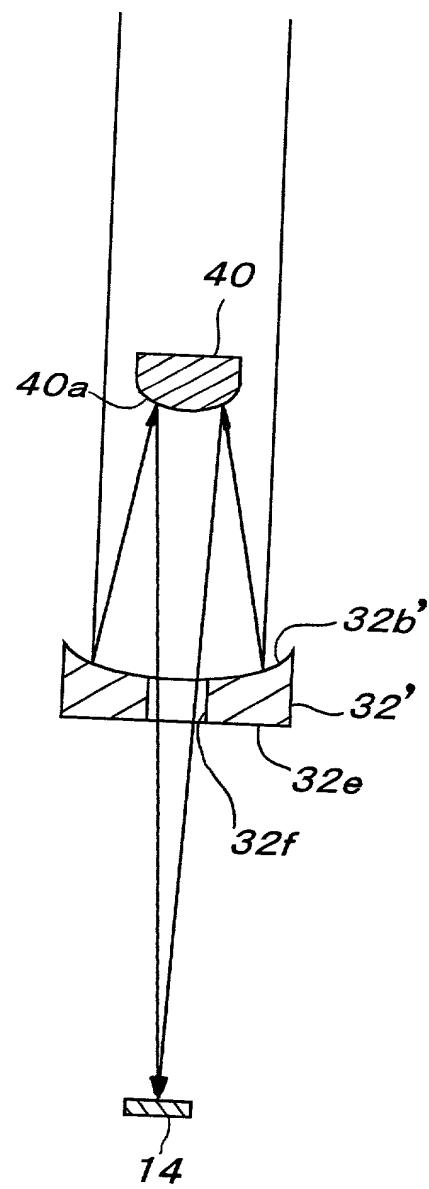
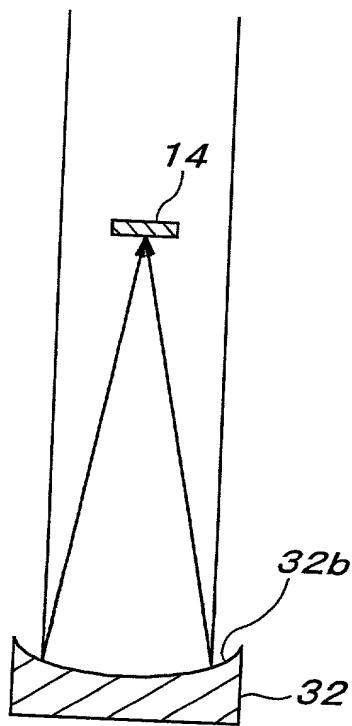


FIG. 18

